

Subject: IP2- Science
Lesson: Module 4: Gravity
Teacher: Ms. Jundette

PART 1-4.1 Push it! Pull it!

1. When you climb a rope, what force are you using?



- ☐ Pull
 - ☐ Push
 - ☐ Push and pull
 - ☐ No force is used.
-

2. When you open this door, what force are you using?



- ☐ Pull
- ☐ Push

- ☐ Push and pull
 - ☐ No force is used.
-

3. If you walked a dog, what force is the dog using?



- ☐ Pull
 - ☐ Push
 - ☐ Push and pull
 - ☐ No force is used.
-

4. If you play a game of tug-of-war, what force are both teams using?



- ☐ Pull
- ☐ Push
- ☐ Push and pull
- ☐ No forces are used.

5. If you move a yo-yo up and down, what force is being used?



- ☐ Pull
- ☐ Push
- ☐ Push and pull
- ☐ No force is being used.

PART II-4.3 Got Gravity?

1. What is gravity?

- ☐ A push
- ☐ A location
- ☐ A contact force
- ☐ A non-contact force

2. Jordan threw his paper airplane across the room. When the airplane left Jordan's fingers, it flew high into the air. What would gravity make happen next?



- ☐ The paper airplane was pulled toward the sky.
 - ☐ The paper airplane was pushed toward the sky.
 - ☐ The paper airplane was pulled toward the ground.
 - ☐ The paper airplane was pushed toward the ground.
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3. Amy's ball fell off the shelf. Amy thinks that gravity was acting as a non-contact force on her ball. Is Amy correct?

- ☐ Yes, because gravity moves the ball by touching it.
- ☐ Yes, because gravity moves the ball without touching it.
- ☐ No, because gravity pushes the ball down by touching it.
- ☐ No, because gravity pulls the ball up without touching it.

4. Look at the picture of Jenna's bedroom. What would happen to her pillows if there was no gravity?



- ☐ Nothing would happen.
 - ☐ They would float up.
 - ☐ They would fall to the floor.
 - ☐ They would slide along the floor.
-

5. What happens if there is no gravity on Earth?

- ☐ Everything will float into the air.
 - ☐ Everything will stay the same.
 - ☐ Everything will fall down to the ground.
 - ☐ Some things will float and some things will fall down to the ground.
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PART 3

1. You open a door and it moves toward you. What force did you use?

- ☐ Pull
 - ☐ Push
 - ☐ Gravity
 - ☐ Push and pull
-

2. James used a push to move the soccer ball. A push is a force that moves the soccer ball _____.



- ☐ toward James
- ☐ away from James
- ☐ toward the ground

- ☐ away from the ground
-

3. One thing I know about gravity is _____.

- ☐ it is a force
- ☐ it makes objects float
- ☐ it pushes objects into the air
- ☐ it is caused by touching something
-

4. You are teaching your friend how gravity works. You explain that gravity is a force that _____.

- ☐ does nothing
- ☐ pulls things sideways
- ☐ pushes everything up to the sky
- ☐ pulls everything down to the ground
-

5. A rubber duck, teddy bear, and flower sit on a shelf. What would happen to them if the shelf was removed?



- ☐ They would float up to the sky.
- ☐ They would not fall to the ground.
- ☐ They would always fall to the ground.
- ☐ They would sometimes fall to the ground.

6. The ketchup and mustard are being supported by the table. What will happen to the ketchup and mustard if the table broke?



- ☐ The ketchup and mustard will stay in the same location.
- ☐ A pull will move the ketchup and mustard into the air.
- ☐ Gravity will pull the ketchup and mustard toward the ground.
- ☐ Gravity will push the ketchup and mustard toward the ground.

7. If you support a doll, a coin, and a paper plane up in the air and drop them at the same time, what will happen?



- ☐ The doll, the coin, and the paper plane will always fall toward the ground.
- ☐ The paper plane will fall toward the ground, the doll and the coin will not.
- ☐ The doll will fall toward the ground, the paper plane and the coin will sometimes fall.
- ☐ The doll and the coin will fall toward the ground, the paper plane will sometimes fall.

8. Your friend throws the ball into the air. This is an example of a contact force because your friend _____.

- ☐ touches the ball to pull it into the air
- ☐ does not touch the ball to pull it

- ☐ touches the ball to push it into the air
 - ☐ does not touch the ball to push it
-

9. Your computer is supported by a stack of books. What will happen to the computer if the books are removed?



- ☐ Gravity will pull the computer into the air.
 - ☐ Gravity will pull the computer toward the ground.
 - ☐ Gravity will push the computer toward the ground.
 - ☐ Gravity will keep the computer in the same location.
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10. If you were pouring a glass of milk, what would happen if we took gravity away?

- ☐ The milk, the glass, and you would float.
 - ☐ The milk would pour into the glass faster.
 - ☐ The milk would continue to pour into the glass.
 - ☐ The milk would float, but you and the glass will stay in place.
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Good Job